C Programming Questions and Answers – Variable Names – 2

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Here is a listing of C interview questions on "Variable Names" along with answers, explanations and/or solutions:

1. Which is valid C expression?

a) int my_num = 100,000;

b) int my_num = 100000;

c) int my num = 1000;

d) int $my_num = 10000;

View Answer

Answer:b

Explanation:space, comma and $ cannot be used in a variable name.

2. What is the output of this C code?

```
#include <stdio.h>

int main()

{

    printf("Hello World! %d \n", x);
```

```
    return 0;

}
```

a) Hello World! x;

b) Hello World! followed by a junk value

c) Compile time error

d) Hello World!

View Answer

Answer:c

Explanation:It results in an error since x is used without declaring the variable x.

Output:

$ cc pgm1.c

pgm1.c: In function ‘main’:

pgm1.c:4: error: ‘x’ undeclared (first use in this function)

pgm1.c:4: error: (Each undeclared identifier is reported only once

pgm1.c:4: error: for each function it appears in.)

3. What is the output of this C code?

```
#include <stdio.h>

int main()

{
```

```
        int y = 10000;

        int y = 34;

        printf("Hello World! %d\n", y);

        return 0;

    }
```

a) Compile time error

b) Hello World! 34

c) Hello World! 1000

d) Hello World! followed by a junk value

View Answer

Answer:a

Explanation:Since y is already defined, redefining it results in an error.

Output:

$ cc pgm2.c

pgm2.c: In function ‘main’:

pgm2.c:5: error: redefinition of ‘y’

pgm2.c:4: note: previous definition of ‘y’ was here

4. Which of the following is not a valid variable name declaration?

a) float PI = 3.14;

b) double PI = 3.14;

c) int PI = 3.14;

d) #define PI 3.14

View Answer

Answer:d

Explanation:#define PI 3.14 is a macro preprocessor, it is a textual substitution.

5. What will happen if the below program is executed?

```
#include <stdio.h>

int main()

{

    int main = 3;

    printf("%d", main);

    return 0;

}
```

a) It will cause a compile-time error

b) It will cause a run-time error

c) It will run without any error and prints 3

d) It will experience infinite looping

View Answer

Answer:c

Explanation:A C program can have same function name and same variable name.

$ cc pgm3.c

$ a.out

3

6. What is the problem in following variable declaration?

float 3Bedroom-Hall-Kitchen?;

a) The variable name begins with an integer

b) The special character '-'

c) The special character '?'

d) All of the mentioned

View Answer

Answer:d

Explanation:A variable name cannot start with an integer, along with that the C compiler interprets the '-' and '?' as a minus operator and a question mark operator respectively.

7. Comment on the output of this C code?

```
#include <stdio.h>

int main()

{
```

```
        int ThisIsVariableName = 12;

        int ThisIsVariablename = 14;

        printf("%d", ThisIsVariablename);

        return 0;

    }
```

a) The program will print 12

b) The program will print 14

c) The program will have a runtime error

d) The program will cause a compile-time error due to redeclaration

View Answer

Answer:b

Explanation:Variable names ThisIsVariablename and ThisIsVariableName are both distinct as C is case sensitive.

Output:

$ cc pgm4.c

$ a.out

14

8. Which of the following cannot be a variable name in C?

a) volatile

b) true

c) friend

d) export

View Answer

Answer: a

Explanation:volatile is C keyword.